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PREFACE

The CoreConferences 2019 held on 20th – 21st March, 2019, in collaboration with Association of Scientists, Developers and Faculties (ASDF), an International body, at Taipei, Taiwan.

CoreConferences 2019 provides a chance for Academic and Industry professionals to discuss the recent progress in the area of Multiple. The outcome of the conference will trigger for the further related research and future technological improvement. This conference highlights the novel concepts and improvements related to the research and technology.

The technical committee consists of experts in the various course subfields helped to scrutinize the technical papers in various fields, support to maintain the quality level of the proceedings of conference which consist of the information of various advancements in the field of research and development globally and would act as a primary resource of researchers to gain knowledge in their relevant fields.

The constant support and encouragement from Dr. S. Prithiv Rajan, ASDF Global President, Dr. Julie Rue Bishop, ASDF International President and Dr. K. Kokula Krishna Hari, ASDF International General Secretary helped a lot to conduct the conference and to publish the proceedings within a short span. I would like to express my deep appreciation and heartfelt thanks to the ASDF team members. Without them, the proceedings could not have been completed in a successful manner. I would like to express my sincere thanks to our management, student friends and colleagues for their involvement, interest, enthusiasm to bring this proceeding of the conference in a successful way.

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Seismic Performance of Steel Plate Shear Walls in Frames with Semi-Rigid Connections

S Arsalan Majlesi¹, Reza Attarnejad², Hamid Asadi³

Abstract: In this paper, the impact semi-rigid connections have on steel plated shear walled Frames has been studied. This is a relatively new subject that has attracted attention in the recent years due to the ductility preference of these connections. This research provides a practical approach for modelling semi-rigid beam-to-column joints based on 3 connections with different moment capacities, where the post-elastic response, including component strain hardening and ultimate rotational capacity is also considered. Fixed-ended Rigid Frame Structures are popular in low-rise to mid-rise buildings located in seismic areas due to their high flexibility and cost-effective solutions. These areas normally regulate the strong-column weak-beam design requirement in which the end result would be larger column sections and overdesigning in low-rise long-span buildings. This restriction may be addressed by utilizing moment-resisting steel frames with energy-dissipative semi-rigid/partial strength connections which results in the removal of the aforementioned design requirement and a more optimum column design. Dynamic and Pushover Analyses have been performed to assess the reliability of 12 frame samples with steel plate shear walls under real strong ground motion records. The sample frame analyses generated satisfactory results according to the acceptance criteria and showed reliable performance under seismic loading. Furthermore, under some specific ground motion records, the top displacements in semi-rigid frames become lower than those that had rigid connections.



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An Assessment of Poor Communication between the Contractor and Subcontractor

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Abstract: This paper explains the causes of poor communication between contractor and subcontractor and the need for effective communication which is vital to the successful completion of any construction project. Good communication can improve teamwork and lead to better project collaboration. Poor communication can result in misunderstandings and delays. Communication is simply the exchange of information in order to convey a message and good communication involves being able to transmit your message so it is received and understood by the intended recipients. The performance of construction projects will be adversely affected if the relationships between contractors and subcontractors are not properly managed. Therefore, the relationships between contractors and subcontractors are becoming more and more important to the success of construction projects. Contractors in the local industry can be classified into four clusters according to the nature of their relationship with subcontractors, namely, adversarial, co-opetitive, collaborative, and partnering. Furthermore, the impact of these relationships on contractor competitiveness and the critical factors affecting collaborative/partnering relationships with subcontractors will be examined.

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